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1 A cross-layer optimization of gnutella for mobile ad hoc networks



Marco Conti, Enrico Gregori, Giovanni Turi

May 2005 MobiHoc '05: Proceedings of the 6th ACM international symposium on Mobile ad hoc networking and computing

Publisher: ACM

Full text available: [pdf\(322.67 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#), [review](#)

Bibliometrics: Downloads (6 Weeks): 40, Downloads (12 Months): 250, Citation Count: 3

In recent years, the Internet has witnessed the introduction of many peer-to-peer systems designed to realize large-scale data sharing. These platforms exhibit interesting features like self-configuration, self-healing and complete decentralization, ...

Keywords: ad hoc networks, cross-layer design, peer-to-peer networking

2 Communications of the ACM: Volume 51 Issue 8

 August issue Volume 51 Issue 8
2008

Publisher: ACM

Full text available:  pdf(6.85 MB)  digital
[edition](#)

Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 0, Citation Count: 0

3 Communications of the ACM: Volume 51 Issue 3

 March issue Volume 51 Issue 3
2008

Publisher: ACM

Full text available:  pdf(7.56 MB)  digital
[edition](#)

Additional Information: [full citation](#)

Bibliometrics: Downloads (6 Weeks): 98, Downloads (12 Months): 483, Citation Count: 0

4 Communications of the ACM: Volume 51 Issue 1

 January issue Volume 51 Issue 1
2008

Publisher: ACM

Full text available:  pdf(5.97 MB)  digital
[edition](#)

Additional Information: [full citation](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 908, Downloads (12 Months): 2862, Citation Count: 0

5 A survey of peer-to-peer content distribution technologies

 Stephanos Androulidakis-Theotokis, Diomidis Spinellis
December ACM Computing Surveys (CSUR), Volume 36 Issue 4
2004

Publisher: ACM

Full text available:  pdf(517.77) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),
[index terms](#)

Bibliometrics: Downloads (6 Weeks): 328, Downloads (12 Months): 2294, Citation Count: 23

Distributed computer architectures labeled "peer-to-peer" are designed for the sharing of computer resources (content, storage, CPU cycles) by direct exchange, rather than requiring the intermediation or support of a centralized server or authority. ...

Keywords: Content distribution, DHT, DOLR, grid computing, p2p, peer-to-peer

6 Models and issues in data stream systems

Brian Babcock, Shivnath Babu, Mayur Datar, Rajeev Motwani, Jennifer Widom
June 2002 PODS '02: Proceedings of the twenty-first ACM SIGMOD-SIGACT-SIGART symposium on Principles of database systems

Publisher: ACM

Full text available:  pdf(257.79 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 179, Downloads (12 Months): 723, Citation Count: 178

In this overview paper we motivate the need for and research issues arising from a new model of data processing. In this model, data does not take the form of persistent relations, but rather arrives in multiple, continuous, rapid, time-varying data ...

7 Dynamic data fusion for future sensor networks

Umakishore Ramachandran, Rajnish Kumar, Matthew Wolenetz, Brian Cooper, Bikash Agarwalla, Junsuk Shin, Phillip Hutto, Arnab Paul

August 2006 ACM Transactions on Sensor Networks (TOSN), Volume 2 Issue 3

Publisher: ACM

Full text available:  pdf(2.44 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 56, Downloads (12 Months): 399, Citation Count: 0

DFuse is an architectural framework for dynamic application-specified data fusion in sensor networks. It bridges an important abstraction gap for developing advanced fusion applications that takes into account the dynamic nature of applications and sensor ...

Keywords: Sensor network, data fusion, energy awareness, in-network aggregation, middleware, platform, role assignment

8 Representing and querying XML with incomplete information

Serge Abiteboul, Luc Segoufin, Victor Vianu

March 2006 ACM Transactions on Database Systems (TODS), Volume 31 Issue 1

Publisher: ACM

Full text available:  pdf(685.60 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 14, Downloads (12 Months): 132, Citation Count: 1

We study the representation and querying of XML with incomplete information. We consider a simple model for XML data and their DTDs, a very simple query language, and a representation system for incomplete information in the spirit of the representations ...

Keywords: Incomplete information, XML

9 Bridging the digital divide: storage media + postal network = generic high-bandwidth communication

Nitin Garg, Sumeet Sobti, Junwen Lai, Fengzhou Zheng, Kai Li, Randolph Y. Wang, Arvind Krishnamurthy

May 2005 ACM Transactions on Storage (TOS), Volume 1 Issue 2

Publisher: ACM

Full text available:  pdf(748.97 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 21, Downloads (12 Months): 179, Citation Count: 0

Making high-bandwidth Internet access pervasively available to a large worldwide audience is a difficult challenge, especially in many developing regions. As we wait for the uncertain takeoff of technologies that promise to improve the situation, we ...

Keywords: Distributed systems, peer-to-peer systems, postal system, storage systems, the digital divide

10 Specification and implementation of exceptions in workflow management systems

Fabio Casati, Stefano Ceri, Stefano Paraboschi, Giuseppe Pozzi

September 1999 ACM Transactions on Database Systems (TODS), Volume 24 Issue 3

Publisher: ACM

Full text available:  pdf(250.40 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 55, Downloads (12 Months): 278, Citation Count: 19

Although workflow management systems are most applicable when an organization follows standard business processes and routines, any of these processes faces the need for handling exceptions, i.e., asynchronous and anomalous situations that fall outside ...

Keywords: active rules, asynchronous events, exceptions, workflow management systems

11 Optimistic replication



Yasushi Saito, Marc Shapiro

March ACM Computing Surveys (CSUR), Volume 37 Issue 1
2005

Publisher: ACM

Full text available: pdf(656.72 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),
[index terms](#)

Bibliometrics: Downloads (6 Weeks): 113, Downloads (12 Months): 858, Citation Count: 8

Data replication is a key technology in distributed systems that enables higher availability and performance. This article surveys optimistic replication algorithms. They allow replica contents to diverge in the short term to support concurrent work ...

Keywords: Replication, disconnected operation, distributed systems, large scale systems, optimistic techniques

12 An authorization model for temporal and derived data: securing information portals



Vijayalakshmi Atluri, Avigdor Gal

February ACM Transactions on Information and System Security (TISSEC),
2002 Volume 5 Issue 1

Publisher: ACM

Full text available: pdf(406.85 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#),
[index terms](#)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 112, Citation Count: 8

The term *information portals* refers to Web sites that serve as main providers of focused information, gathered from distributed data sources. Gathering and disseminating information through information portals introduce new security challenges. ...

Keywords: Access control, authorization administration, derived data, temporal data

13 Proxy-based acceleration of dynamically generated content on the world wide web: An approach and implementation



Anindya Datta, Kaushik Dutta, Helen Thomas, Debra Vandermeer, Krithi Ramamritham
June ACM Transactions on Database Systems (TODS), Volume 29 Issue 2
2004

Publisher: ACM

Full text available: pdf(927.23 KB)

Additional Information: [full citation](#), [appendices and supplements](#),
[abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 32, Downloads (12 Months): 197, Citation Count: 1

As Internet traffic continues to grow and websites become increasingly complex, performance and scalability are major issues for websites. Websites are increasingly relying on dynamic content generation applications to provide website visitors with dynamic, ...

Keywords: Edge caching, caching dynamically generated content, fragment caching, implementation, proxy caching, world wide web

14 Publicly verifiable ownership protection for relational databases

 Yingjiu Li, Robert Huijie Deng
March 2006 ASI ACCS '06: Proceedings of the 2006 ACM Symposium on Information, computer and communications security

Publisher: ACM

Full text available:  pdf(332.50 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 15, Downloads (12 Months): 151, Citation Count: 0

Today, watermarking techniques have been extended from the multimedia context to relational databases so as to protect the ownership of data even after the data are published or distributed. However, all existing watermarking schemes for relational databases ...

Keywords: certificate, ownership protection, public verifiability, relational database, watermark

15 Securing the drop-box architecture for assisted living

 Michael J. May, Wook Shin, Carl A. Gunter, Insup Lee
November 2006 FMSE '06: Proceedings of the fourth ACM workshop on Formal methods in security

Publisher: ACM

Full text available:  pdf(490.78 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 96, Citation Count: 1

Home medical devices enable individuals to monitor some of their own health information without the need for visits by nurses or trips to medical facilities. This enables more continuous information to be provided at lower cost and will lead to better ...

Keywords: assisted living, formal methods, formal verification, home health monitoring, security protocol verification

16 Incentive compatible medium access control in wireless networks

 **Nassir BenAmmar, John S. Baras**

October GameNets '06: Proceeding from the 2006 workshop on Game theory for
2006 communications and networks

Publisher: ACM

Full text available:  pdf(325.99)


Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 10, Downloads (12 Months): 81, Citation Count: 0

The current IEEE 802.11 medium access control standard is being deployed in coffee shops, in airports and even across major cities. The terminals accessing these wi-fi access points do not belong to the same entity, as in corporate networks, but are ...

Keywords: Vickrey auction, medium access control, wireless networks

17 Design and implementation of the *idemix* anonymous credential system

 **Jan Camenisch, Els Van Herreweghen**

November CCS '02: Proceedings of the 9th ACM conference on Computer and
2002 communications security

Publisher: ACM

Full text available:  pdf(1.09)


Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 97, Citation Count: 16

Anonymous credential systems [8, 9, 12, 24] allow anonymous yet authenticated and accountable transactions between users and service providers. As such, they represent a powerful technique for protecting users' privacy when conducting Internet transactions. ...

Keywords: anonymous credential systems, cryptographic protocols, privacy

18 BITPEER: continuous subspace skyline computation with distributed bitmap

 **indexes**

Katerina Fotiadou, Evangelia Pitoura

March DaMaP '08: Proceedings of the 2008 international workshop on Data
2008 management in peer-to-peer systems

Publisher: ACM

Full text available:  pdf(406.47)


Additional Information: [full citation](#), [abstract](#), [references](#)

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 6, Citation Count: 0

In this paper, we propose a bitmap approach for efficient subspace skyline computation in a distributed setting. Our approach computes extended skylines which have been shown to include all points necessary for computing the skyline at any subspace. ...

19 Partition-based lazy updates for continuous queries over moving objects

 Yu-Ling Hsueh, Roger Zimmermann, Haojun Wang, Wei-Shinn Ku
November 2007 GIS '07: Proceedings of the 15th annual ACM international symposium
on Advances in geographic information systems

Publisher: ACM

Full text available:  pdf(629.93 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 20, Downloads (12 Months): 63, Citation Count: 0

Continuous spatial queries posted within an environment of moving objects produce as their results a time-varying set of objects. In the most ambitious case both queries and data objects are dynamic, making it very challenging to find an efficient query ...

Keywords: mobile computing and location-based services

20 RBAC administration in distributed systems

 M.A.C. Dekker, J. Crampton, S. Etalle
June 2008 SACMAT '08: Proceedings of the 13th ACM symposium on Access control
models and technologies

Publisher: ACM

Full text available:  pdf(422.87 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Bibliometrics: Downloads (6 Weeks): 40, Downloads (12 Months): 40, Citation Count: 0

Large and distributed access control systems are increasingly common, for example in health care. In such settings, access control policies may become very complex, thus complicating correct and efficient administration of the access control system. Despite ...

Keywords: RBAC, access control, administration, distributed system

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